## **IN THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (original) A method, comprising:

forming a first via dielectric layer on a substrate;

patterning the first via dielectric layer to form a via through the first via dielectric layer;

forming a photosensitive trench dielectric layer on the first via dielectric layer;

patterning the photosensitive trench dielectric layer to form a trench through the photosensitive trench dielectric layer;

depositing a conductive material in the via and the trench;

forming a top layer on the photosensitive trench dielectric layer; and

decomposing, at least partially, the photosensitive trench dielectric layer, decomposed material from the photosensitive trench dielectric layer passing through the top layer.

- 2. (original) The method of claim 1, wherein decomposing the photosensitive trench dielectric layer comprises heating the photosensitive trench dielectric layer to a temperature in a range from about 180 degrees Celsius to about 400 degrees Celsius.
- 3. (original) The method of claim 1, wherein patterning the photosensitive trench dielectric layer comprises directly patterning the photosensitive trench dielectric layer.
- 4. (original) The method of claim 3, wherein patterning the photosensitive trench dielectric layer comprises patterning the photosensitive trench dielectric layer without using a separate photoresist layer on the photosensitive trench dielectric layer.

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- 5. (currently amended) The method of claim 1, wherein the photosensitive trench dielectric layer is substantially completely decomposed, leaving an air gap between the first and second via dielectric layer layers and the top layer.
- 6. (currently amended) The method of claim 1, wherein the photosensitive trench dielectric layer is partially decomposed, leaving a partial air gap between the first and second via dielectric layer layers and the top layer.
- 7. (currently amended) The method of claim 1, wherein the photosensitive trench dielectric layer comprises a matrix material and porogen material, and decomposing the photosensitive trench dielectric layer comprises removing at least some of the porogen material from the matrix material, leaving a porous trench dielectric layer between the first and second via dielectric layer layers and the top layer.
- 8. (original) The method of claim 1, wherein the photosensitive trench dielectric layer comprises at least one of a photosesist material, a photosensitive polynorbornene material, a photosensitive polysilazane material, a photosensitive benzocylcobutene, a photosensitive polyarylene, a photosensitive polysiloxane, a photosensitive polybenzoxazole, a photosensitive polyborazylene, or a photosensitive fused ring polymer.
- 9. (original) The method of claim 1, further comprising:

forming a coating layer on the patterned trench dielectric layer;

forming a conductor seed layer on the coating layer; and

forming a cap layer on the deposited conductive material in the via and the trench.

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20. (original) A method, comprising:

forming a photosensitive trench dielectric layer on a substrate; and

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directly patterning the photosensitive trench dielectric layer to form a trench through the photosensitive trench dielectric layer.

21. (original) The method of claim 20, further comprising:

depositing a conductive material in the trench;

forming a top layer on the photosensitive trench dielectric layer; and

decomposing, at least partially, the photosensitive trench dielectric layer, decomposed material from the photosensitive trench dielectric layer passing through the top layer.

- 22. (original) The method of claim 21, wherein patterning the photosensitive trench dielectric layer comprises patterning the photosensitive trench dielectric layer without using an anti-reflective layer.
- 23. (original) The method of claim 20, wherein the photosensitive trench dielectric layer comprises at least one of a photosesist material, a photosensitive polynorbornene material, a photosensitive polysilazane material, a photosensitive benzocylcobutene, a photosensitive polyarylene, a photosensitive polysiloxane, a photosensitive polybenzoxazole, a photosensitive polyborazylene, or a photosensitive fused ring polymer.

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